

GROUNDWATER FEATURE

Feature type and accuracy — Yield — Salinity –TDS

GROUNDWATER FEATURE TYPE and ACCURACY

- | | |
|---|--|
| Borehole location accuracy 1 – 500 metres | Borehole location accuracy 500 – 2000 metres |
| Spear point location accuracy 1 – 500 metres | Spear point location accuracy 500 – 2000 metres |
| Well, dug well location accuracy 1 – 500 metres | Well, dug well location accuracy 500 – 2000 metres |

BOREHOLE YIELD

Litres / second Potential usage of groundwater based on borehole yield

- | | |
|------------|---|
| Unknown | |
| 0 (Dry) | |
| <= 0.05 | Limited use for domestic and stock |
| 0.05 – 0.5 | Domestic, stock, garden |
| 0.5 – 1.5 | Domestic, stock, garden, limited irrigation |
| 1.5 – 5.0 | Domestic, stock, garden, small area irrigation |
| 5.0 – 10.0 | Domestic, stock, garden, moderate area irrigation, small communities |
| > 10.0 | Domestic, stock, garden, large area irrigation, small towns, supplement to larger towns |

Outputs of bores are those supplied by drillers and are mostly the result of short term pumping measurements. Outputs may not be sustained for long periods of continuous pumping. Boreholes reported as dry holes usually have small unreported yields e.g. <0.05 L/s. The bores shown are those recorded in the Mineral Resources Tasmania groundwater database (BORIS).

BORIS data as at 19-SEP-2006

Conversion factors -
1 litre per second ~ 800 gallons per hour ~ 8.6 millimetres per hectare per day ~ 0.84 acre inches per day.

SALINITY - TDS

Milligrams / litre

- | |
|-------------|
| Unknown |
| <= 500 |
| 500 – 1000 |
| 1000 – 1500 |
| 1500 – 3000 |
| 3000 – 7000 |
| > 7000 |

GEOLOGY (TRIASSIC / PERMIAN)

- | |
|---|
| Undifferentiated Triassic sediments (R). |
| Upper Triassic sediments – dominantly mudstone and sandstone, lithic sandstone with felsic volcanoclastic sandstone and coal measures (Rv). |
| Lower Triassic sediments – dominantly quartz sandstone (Rq). |
| Permian sediments (P). |

POTENTIOMETRIC CONTOURS

- | | |
|-----|---|
| 170 | Potentiometric contours of deeper Tertiary Aquifers (5 m contour interval) Longford Area (Geological Bulletin 59) |
| 60 | Potentiometric surface contours (10 m contour interval) Great Forester River Catchment (NE Tasmania) |
| 130 | Potentiometric surface contours in Tertiary basalt (10 m contour interval) Great Forester River Catchment (NE Tasmania) |
| | Tertiary age deep lead – position approximate Great Forester River Catchment (NE Tasmania) |

SALINITY CONTOURS

- | | |
|------|--|
| 1500 | Salinity contours of deeper Tertiary Aquifers (500 mg/L contour interval) Longford Area (Geological Bulletin 59) |
|------|--|

Scale: 1:100000



AGD66 – AMG Zone 55
Contour Interval: 100 metres

GROUNDWATER QUALITY Expressed as Total Dissolved Solids (TDS)

TDS in mg/L	Potential usage of groundwater based on water quality
<= 500	All purposes, domestic and irrigation
500 - 1000	Most purposes, general upper limit for irrigation
1000 - 1500	Most purposes, upper limit for drinking, limited irrigation
1500 - 3000	All livestock, very limited irrigation
3000 - 7000	Most livestock (not pigs or horses)
> 7000	Limited stock use (beef cattle, sheep)

Areas of similar groundwater quality across different rock types are shown by shading as above. Solid lines indicate deep aquifers while broken lines indicate shallow aquifers. Boundaries are approximate only.

These are general limits for the use of groundwater. The use of water for irrigation with the higher levels of salinity in the above table should only be considered on particularly suitable soil types with the adoption of specific management practices, or if the bore water is mixed with fresh water. For further information see Australian and New Zealand guidelines for fresh and marine water quality.

The data for this map were derived from the Tasmanian Geological Atlas 1:250,000 digital series and Mineral Resources Tasmania Groundwater data base (BORIS) and are based upon the potential for groundwater within broad rock groups.

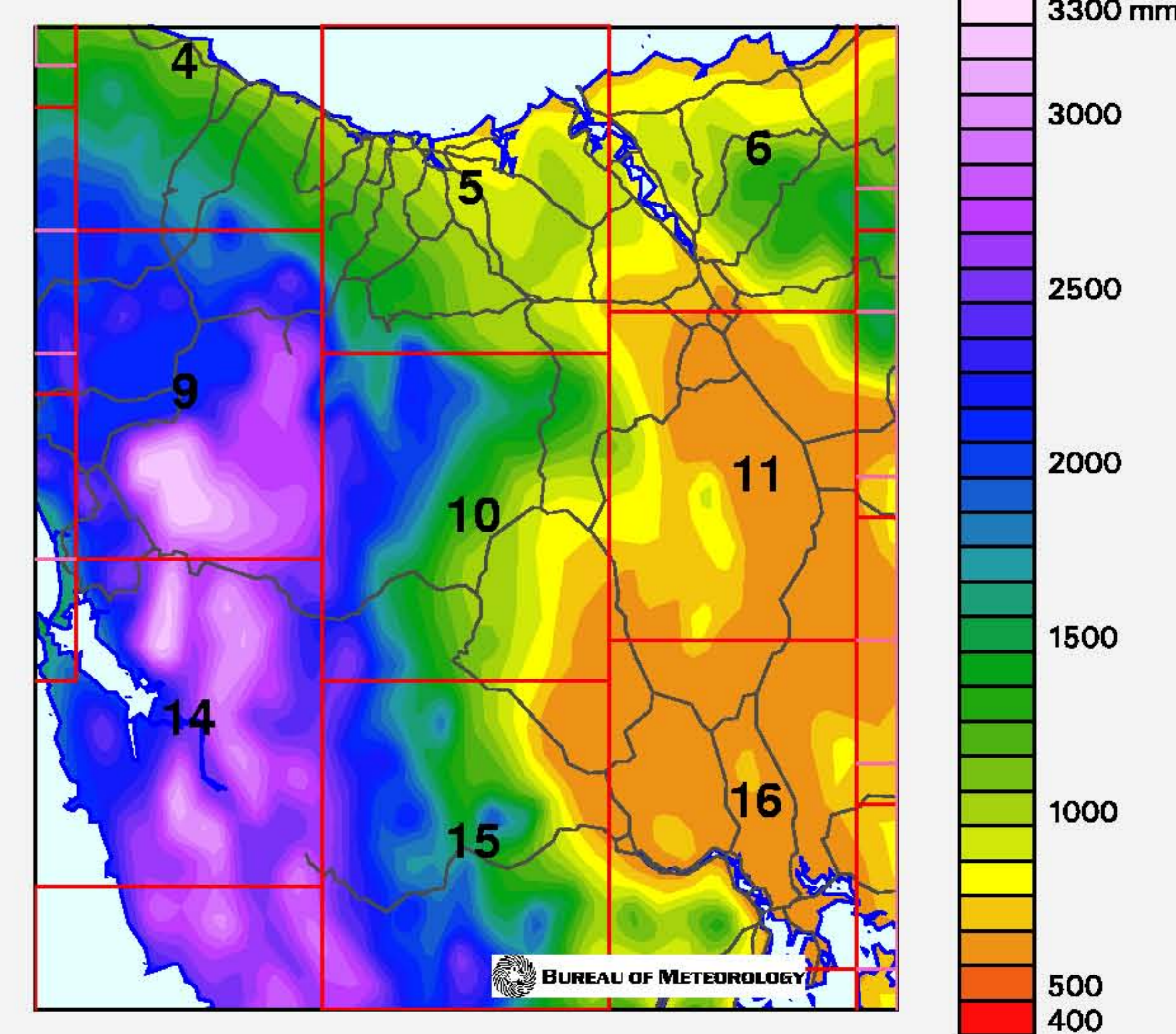
Other groundwater and hydrogeology maps and reports are available from Mineral Resources Tasmania. Borehole data is available from the Mineral Resources Tasmania web site -

www.mrt.tas.gov.au

This map is not the result of a concise survey therefore groundwater potential and salinity areas are indicative only. This map does not remove the need for site specific investigations.

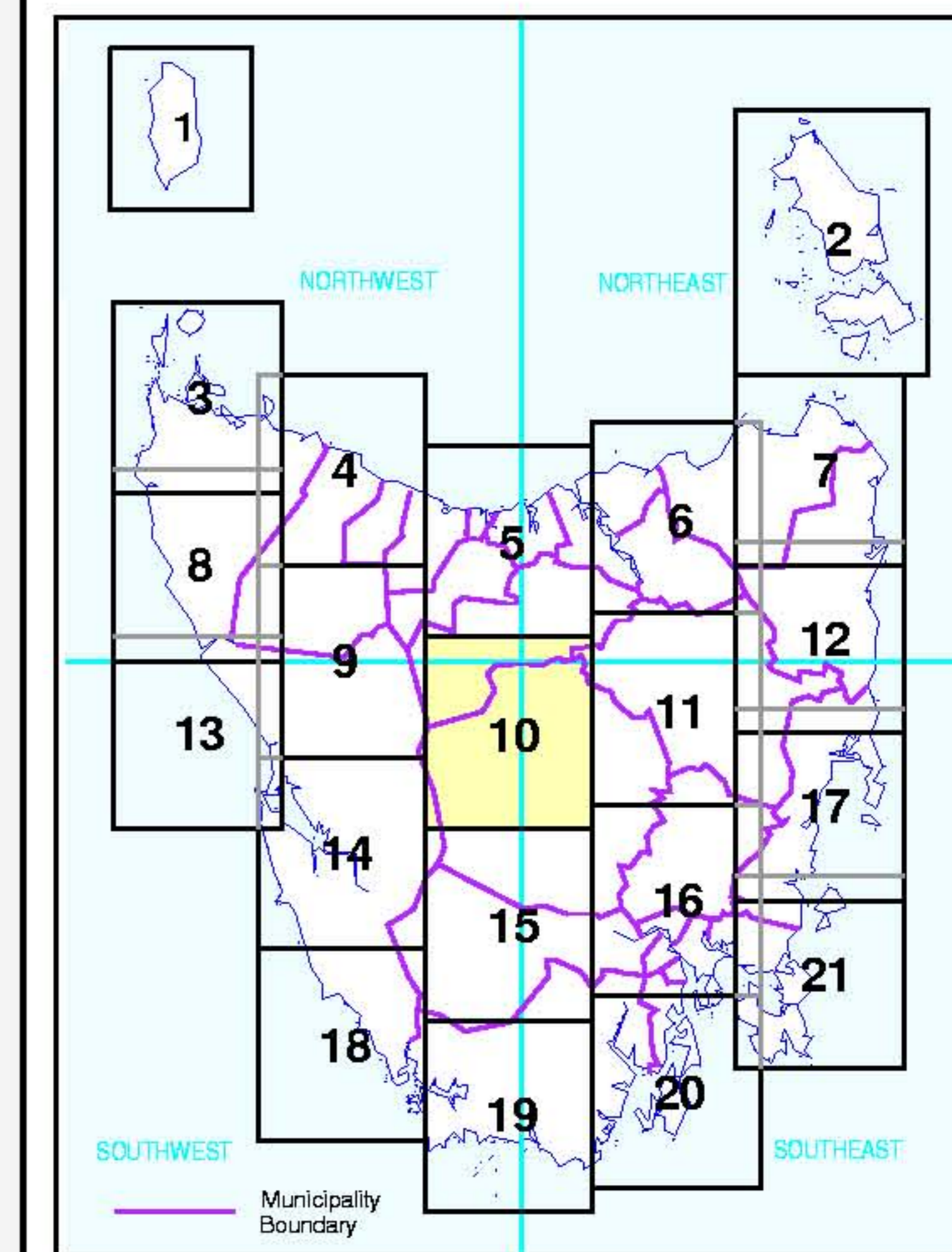
Groundwater potential data compiled by:
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MEAN ANNUAL RAINFALL



The rainfall map shows the mean annual rainfall over Tasmania for the standard 30-year period from 1961 to 1990. It was derived by the Climate and Consultancy Section in the Tasmania and Antarctica Regional Office of the Bureau of Meteorology, from a gridded analysis prepared by the Bureau's National Climate Centre. The analysis system blends measured rainfall with topography to give estimates of rainfall for each area. The results will be less accurate in mountainous or data-sparse regions, and may differ from the observations at individual locations.

INDEX TO ADJOINING MAP SHEETS



MUNICIPAL PLANNING INFORMATION SERIES
MAP 10

Map first published July 2006

Base data from the LIST, © State of Tasmania

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